ELSEVIER

www.elsevier.nl/locate/jorganchem

Journal of Organometallic Chemistry 597 (2000) 207

Journal of Organometallic Chemistry

Author Index of Volume 597

Alexandrov, G.G., 196
Artamkina, G.A., 77

Barron, A.R., 29
Batsanov, A.S., 157
Beletskaya, I.P., 77
Belyakov, A.V., 87
Blechta, V., 200
Blosser, P.W., 125
Bott, S.G., 29
Bregadze, V.I., 48
Bruhn, C., 10
Buchalski, P., 133

Dąbrowski, M., 190
Denisov, F.S., 196
Dickson, P.M., 105
Dinjus, E., 139
Dolgushin, F.M., 48
Drogunova, G.I., 164

Eaborn, C., 3
El-Hamruni, S.M., 3
Elsagir, A.R., 139
Elsevier, C.J., 146
Exner, O., 200

Fox, M.A., 157
Francis, J.A., 29
Fugger, C., 116

Gałdecka, E., 20
Gałdecki, Z., 20
Gallucci, J.C., 125
Gaßner, F., 139
Gelbrich, T., 92
Gerisch, M., 10
Görls, H., 116, 139

Haaland, A., 87
Hiller, J., 146
Hill, M.S., 3
Hitchcock, P.B., 3
Hopman, M., 3
Horáček, M., 146
Howard, J.A.K., 157

Ivushkin, V.A., 77

Jerzykiewicz, L.B., 133

Kaagman, J.-W.F., 146
King, R.B., 54
Kowalewska, A., 111
Kowalska, M.W., 20
Kowalski, A., 20
Kownacki, I., 175
Kravtsov, D.N., 164
Kvíčalová, M., 200

Laikov, D.N., 182
Langlotz, J., 92
Le Gouic, A., 3
Lickiss, P.D., 111
Lobanova, I.A., 48
Lucas, R., 111
Luliński, S., 190
Lunin, V.V., 182
Lyakina, A.Y., 196
Lyssenko, K.A., 196

Mach, K., 146
Maciejewski, H., 175
Madura, I., 190
Malyshev, O., 42
Malyugina, S., 42
Marciniec, B., 175
Mityuk, D., 42

Nesterenko, P., 42

Oliver, J.P., 105
Oprunenko, Y., 42

Pasynskii, A.A., 196
Peregudov, A.S., 164
Petrovskii, P.V., 48
Pietrzykowski, A., 1, 133
Pruchnik, F.P., 20

Rep, M., 146
Richardson, G.N., 38
Robinson, G.H., 54
Royo, P., 61
Rudolf, B., 17

Sánchez-Nieves, J., 61
Sazonov, P.K., 77
Schmidt, H., 10
Schraml, J., 200
Sedmera, P., 146
Serwatowski, J., 190
Shorokhov, D.J., 87
Sieler, J., 92
Smith, J.D., 3
Soukupová, L., 200
Stańczyk, W.A., 111
Starikova, Z.A., 48, 164
Starosta, R., 20
Steinborn, D., 10

Taube, R., 92
Thewalt, U., 146
Timofeev, S.V., 48
Tittes, K., 92
Torubaev, Y.V., 196
Trzeciak, A.M., 69

Ustynyuk, L.Y., 182
Ustynyuk, Y.A., 182

Vahrenkamp, H., 38
Valiullina, R.I., 196
Vyater, A., 10

Wade, K., 157
Walther, D., 116
West, R., 87
Wojcicki, A., 125

Yanovsky, A.I., 164

Zachara, J., 190
Zakrzewski, J., 17
Ziółkowski, J.J., 69

PII: S0022-328X(99)00012-7

ELSEVIER

www.elsevier.nl/locate/jorganchem

Journal of Organometallic Chemistry 597 (2000) 209–212

Journal of Organometallic Chemistry

Subject Index of Volume 597

Acetone azine
Reactions of methyl-substituted titanocene–bis(trimethylsilyl)-acetylene complexes with acetone azine: crystal structures of $(\eta^5{:}\eta^1\text{-}C_5HMe_3CH_2CMe_2NH)_2Ti$ and $(C_5Me_5)_2Ti(N{=}CMe_2)$, 146
Acetylene π-complex
Synthesis and molecular structures of $Co_2(CO)_{6-n}(PPh_3)_n[\mu\text{-}C_2(CH_2R)_2]$ ($R = CH_2OH$ or CH_2SCMe_3) derivatives containing chelated $[CpFe(CO)_2]_2Sn$ or $W(CO)_4$ fragments, 196
Acyl complexes
Synthesis, characterization and decomposition behavior of novel acyl(hydrido)platinum(IV) complexes, 10
Alkylalanes
Syntheses of some bulky alkylalanes and alkyltrihydroaluminates: crystal structures of $[Li(THF)_2AlH_3C(SiMe_3)_2(SiMe_2NMe_2)]_2$, $Li(THF)_2Al_2H_5\{C(SiMe_3)_3\}_2$, $(Me_3Si)_3CAlH_2\cdot THF$ and the pyrazolato derivative $[LiAlH(C_3H_3N_2)_2C(SiMe_3)_3]_2$ (THF = tetrahydrofuran), 3
Alkynes
1-Azadienes as bridging ligands in nickel(0) complexes of the type $[(1\text{-aza-}1.3\text{-diene})Ni(L)]_2$ (L = 1-aza-1.3-diene, alkyne, triphenylphosphine), 116
Allyl
Komplexkatalyse LVI: Zur Kation-Anion-Wechselwirkung in den C_{12}-Allylnickel(II)-Komplexen $[Ni(\eta^3,\eta^2,\eta^2\text{-}C_{12}H_{19})]X$ als Steuergröße für die Katalyse der stereospezifischen Butadienpolymerisation. Synthese des Tetrakis(pentafluorphenyl)borats ($X = B(C_6F_5)_4$) und Charakterisierung des Tetrafluoroborats sowie des Trifluor-methansulfonats ($X = BF_4$, CF_3SO_3) durch Röntgenkristallstrukturanalyse und Leitfähigkeitsmessungen, 92
Aluminium
Syntheses of some bulky alkylalanes and alkyltrihydroaluminates: crystal structures of $[Li(THF)_2AlH_3C(SiMe_3)_2(SiMe_2NMe_2)]_2$, $Li(THF)_2Al_2H_5\{C(SiMe_3)_3\}_2$, $(Me_3Si)_3CAlH_2\cdot THF$ and the pyrazolato derivative $[LiAlH(C_3H_3N_2)_2C(SiMe_3)_3]_2$ (THF = tetrahydrofuran), 3
Aluminum
Sterically crowded aryloxides of aluminum: intramolecular coordination of bidentate ligands, 29
Synthesis and structural characterization of polymeric dimethylaluminum phenylthiolate, 105
Aryloxide
Sterically crowded aryloxides of aluminum: intramolecular coordination of bidentate ligands, 29
1-Aza-1.3-dienes
1-Azadienes as bridging ligands in nickel(0) complexes of the type $[(1\text{-aza-}1.3\text{-diene})Ni(L)]_2$ (L = 1-aza-1.3-diene, alkyne, triphenylphosphine), 116

Barbiturate
$(\eta^5$-Cyclopentadienyl)$Fe(CO)_2$ complexes of barbiturate anions, 17 bis-Cyclopentadienyl zirconium and titanium complexes
Activation of CH_4 and H_2 by zirconium(IV) and titanium(IV) cationic complexes. Theoretical DFT study, 182
Branched silanes
Reactions of the Si–H bonds in tetrakis(dimethylsilyl)methane and silane, 111
Butadiene
Komplexkatalyse LVI: Zur Kation-Anion-Wechselwirkung in den C_{12}-Allylnickel(II)-Komplexen $[Ni(\eta^3,\eta^2,\eta^2\text{-}C_{12}H_{19})]X$ als Steuergröße für die Katalyse der stereospezifischen Butadienpolymerisation. Synthese des Tetrakis(pentafluorphenyl)borats ($X = B(C_6F_5)_4$) und Charakterisierung des Tetrafluoroborats sowie des Trifluor-methansulfonats ($X = BF_4$, CF_3SO_3) durch Röntgenkristallstrukturanalyse und Leitfähigkeitsmessungen, 92

Carbon monoxide
Molecular structure and properties of the rhodium(II) complexes with chemilabile ether–phosphine ligands $P(2\text{-}MeOC_6H_4)_3$ and $P(2,6\text{-}(MeO)_2C_6H_3)_3$, 20
Carbonylmetallates
Halophilic reactions of pentafluorohalobenzenes with transition-metal carbonyl anions, 77
Catalysis
Bidentate ferrocenylphosphines and their palladium(II)dichloride complexes — X-ray structural and NMR spectroscopic investigations and first results of their characteristics in the Pd-catalysed cooligomerisation of 1,3-butadiene with CO_2, 139
Catalyzed reaction of triethylborane with pyrazole, 190
Komplexkatalyse LVI: Zur Kation-Anion-Wechselwirkung in den C_{12}-Allylnickel(II)-Komplexen $[Ni(\eta^3,\eta^2,\eta^2\text{-}C_{12}H_{19})]X$ als Steuergröße für die Katalyse der stereospezifischen Butadienpolymerisation. Synthese des Tetrakis(pentafluorphenyl)borats ($X = B(C_6F_5)_4$) und Charakterisierung des Tetrafluoroborats sowie des Trifluor-methansulfonats ($X = BF_4$, CF_3SO_3) durch Röntgenkristallstrukturanalyse und Leitfähigkeitsmessungen, 92
C–H activation
Oxo and imido/imido exchange and C–H activation reactions based on pentamethylcylopentadienyl imido tantalum complexes, 61
Chelate
Synthesis and molecular structures of $Co_2(CO)_{6-n}(PPh_3)_n[\mu\text{-}C_2(CH_2R)_2]$ ($R = CH_2OH$ or CH_2SCMe_3) derivatives containing chelated $[CpFe(CO)_2]_2Sn$ or $W(CO)_4$ fragments, 196
Chiral HPLC
Intramolecular versus intermolecular mechanism of metallotropic rearrangements of chiral chromium tricarbonyl complexes of substituted naphthalenes and other polyaromatic compounds investigated by chiral HPLC of its racemic mixtures, 42
Chiral ligands
Bidentate ferrocenylphosphines and their palladium(II)dichloride complexes — X-ray structural and NMR spectroscopic investigations and first results of their characteristics in the Pd-catalysed cooligomerisation of 1,3-butadiene with CO_2, 139

PII: S0022-328X(99)00013-9

Chromium tri(carbonyl) aromatic
Intramolecular versus intermolecular mechanism of metallotropic rearrangements of chiral chromium tricarbonyl complexes of substituted naphthalenes and other polyaromatic compounds investigated by chiral HPLC of its racemic mixtures, 42
closo-Rhodacarborane
Mercury derivatives of *exo-nido*-ruthenacarborane, 48
Clusters
Analogies between Group 13 metal clusters in organometallic and intermetallic structures, 54
Reactions of nickelocene with sodium in the presence of terminal alkenes, 133
CO_2
Bidentate ferrocenylphosphines and their palladium(II)dichloride complexes — X-ray structural and NMR spectroscopic investigations and first results of their characteristics in the Pd-catalysed cooligomerisation of 1,3-butadiene with CO_2, 139
Cobalt
Synthesis and molecular structures of $Co_2(CO)_{6-n}(PPh_3)_n[\mu\text{-}C_2(CH_2R)_2]$ ($R = CH_2OH$ or CH_2SCMe_3) derivatives containing chelated $[CpFe(CO)_2]_2Sn$ or $W(CO)_4$ fragments, 196
CPMAS
Bidentate ferrocenylphosphines and their palladium(II)dichloride complexes — X-ray structural and NMR spectroscopic investigations and first results of their characteristics in the Pd-catalysed cooligomerisation of 1,3-butadiene with CO_2, 139
Crystal structure
Biscyclopentadienylzirconium(IV) η^3-propargyl/allenyl complexes, 125
Reactions of methyl-substituted titanocene–bis(trimethylsilyl)-acetylene complexes with acetone azine: crystal structures of $(\eta^5{:}\eta^1\text{-}C_5HMe_3CH_2CMe_2NH)_2Ti$ and $(C_5Me_5)_2$-$Ti(N{=}CMe_2)$, 146
Reactions of nickelocene with sodium in the presence of terminal alkenes, 133
Syntheses and reactions of some new C-pentafluorophenyl and tetrafluorophenylene carborane systems, 157
Cyanide bridging
Cyanide-bridged tetranuclear complexes with T-shaped $Pt(CN\text{–}M)_3$ arrangements, 38
Cyclopentadienyl
$(\eta^5$-Cyclopentadienyl$)Fe(CO)_2$ complexes of barbiturate anions, 17
Reactions of nickelocene with sodium in the presence of terminal alkenes, 133
Cyclopentadienyl imido tantalum complexes
Oxo and imido/imido exchange and C–H activation reactions based on pentamethylcylopentadienyl imido tantalum complexes, 61

Dehydrogenative (coupling) silylation
Catalysis of hydrosilylation: Part XXXIV. High catalytic efficiency of the nickel equivalent of Karstedt catalyst $[\{Ni(\eta\text{-}CH_2{=}CHSiMe_2)_2O\}_2\{\mu\text{-}(\eta\text{-}CH_2{=}CHSiMe_2)_2O\}]$, 175
Deltahedra
Analogies between Group 13 metal clusters in organometallic and intermetallic structures, 54
Density functional calculations
Activation of CH_4 and H_2 by zirconium(IV) and titanium(IV) cationic complexes. Theoretical DFT study, 182
Molecular structure and conformational composition of decamethyl-*n*-tetrasilane, Si_4Me_{10}, by gas electron diffraction and density functional theory calculations, 87
Dirhodium complexes
Molecular structure and properties of the rhodium(II) complexes with chemilabile ether–phosphine ligands $P(2\text{-}MeOC_6H_4)_3$ and $P(2,6\text{-}(MeO)_2C_6H_3)_3$, 20

Effect of methyl substituents
Reactions of methyl-substituted titanocene–bis(trimethylsilyl)-acetylene complexes with acetone azine: crystal structures of $(\eta^5{:}\eta^1\text{-}C_5HMe_3CH_2CMe_2NH)_2Ti$ and $(C_5Me_5)_2Ti(N{=}CMe_2)$, 146
Electrochemistry
Cyanide-bridged tetranuclear complexes with T-shaped $Pt(CN\text{–}M)_3$ arrangements, 38
Electron diffraction
Molecular structure and conformational composition of decamethyl-*n*-tetrasilane, Si_4Me_{10}, by gas electron diffraction and density functional theory calculations, 87
Ether–phosphines
Molecular structure and properties of the rhodium(II) complexes with chemilabile ether–phosphine ligands $P(2\text{-}MeOC_6H_4)_3$ and $P(2,6\text{-}(MeO)_2C_6H_3)_3$, 20
exo-nido-Ruthenacarborane
Mercury derivatives of *exo-nido*-ruthenacarborane, 48

Ferrocenes
Bidentate ferrocenylphosphines and their palladium(II)dichloride complexes — X-ray structural and NMR spectroscopic investigations and first results of their characteristics in the Pd-catalysed cooligomerisation of 1,3-butadiene with CO_2, 139
Fluxional behavior
Biscyclopentadienylzirconium(IV) η^3-propargyl/allenyl complexes, 125

Group 13
Analogies between Group 13 metal clusters in organometallic and intermetallic structures, 54

Halogen–metal exchange
Halophilic reactions of pentafluorohalobenzenes with transition-metal carbonyl anions, 77
Hammett correlations
Benzhydroximic acids — NMR study of trimethylsilyl derivatives, 200
Hexafluorobenzene
Syntheses and reactions of some new C-pentafluorophenyl and tetrafluorophenylene carborane systems, 157
H–H bond activation
Activation of CH_4 and H_2 by zirconium(IV) and titanium(IV) cationic complexes. Theoretical DFT study, 182
Hybrid liquid crystals
Reactions of the Si–H bonds in tetrakis(dimethylsilyl)methane and silane, 111
Hydrido complexes
Synthesis, characterization and decomposition behavior of novel acyl(hydrido)platinum(IV) complexes, 10
Hydrogenation
New insight into role of *ortho*-metallation in rhodium triphenylphosphite complexes. Hydrogen mobility in hydrogenation and isomerization of unsaturated substrates, 69
Hydrosilylation
Catalysis of hydrosilylation: Part XXXIV. High catalytic efficiency of the nickel equivalent of Karstedt catalyst $[\{Ni(\eta\text{-}CH_2{=}CHSiMe_2)_2O\}_2\{\mu\text{-}(\eta\text{-}CH_2{=}CHSiMe_2)_2O\}]$, 175

Reactions of the Si–H bonds in tetrakis(dimethylsilyl)methane and silane, 111

Intermetallic
Analogies between Group 13 metal clusters in organometallic and intermetallic structures, 54

Iron
(η^5-Cyclopentadienyl)$Fe(CO)_2$ complexes of barbiturate anions, 17
Synthesis and molecular structures of $Co_2(CO)_{6-n}(PPh_3)_n[\mu$-$C_2(CH_2R)_2]$ (R = CH_2OH or CH_2SCMe_3) derivatives containing chelated $[CpFe(CO)_2]_2Sn$ or $W(CO)_4$ fragments, 196

Isomerization
New insight into role of *ortho*-metallation in rhodium triphenylphosphite complexes. Hydrogen mobility in hydrogenation and isomerization of unsaturated substrates, 69

Lactone
Bidentate ferrocenylphosphines and their palladium(II)dichloride complexes — X-ray structural and NMR spectroscopic investigations and first results of their characteristics in the Pd-catalysed cooligomerisation of 1,3-butadiene with CO_2, 139

Lithium
Syntheses of some bulky alkylalanes and alkyltrihydroaluminates: crystal structures of $[Li(THF)_2AlH_3C(SiMe_3)_2(SiMe_2$-$NMe_2)]_2$, $Li(THF)_2Al_2H_5\{C(SiMe_3)_3\}_2$, $(Me_3Si)_3CAlH_2$·THF and the pyrazolato derivative $[LiAlH(C_3H_3N_2)_2$-$C(SiMe_3)_3]_2$ (THF = tetrahydrofuran), 3

Mercuration
Mercury derivatives of *exo-nido*-ruthenacarborane, 48

meta Carborane
Syntheses and reactions of some new C-pentafluorophenyl and tetrafluorophenylene carborane systems, 157

Metal acyl anions
Halophilic reactions of pentafluorohalobenzenes with transition-metal carbonyl anions, 77

Metallacarboranes
Mercury derivatives of *exo-nido*-ruthenacarborane, 48

Metallotropic
Intramolecular versus intermolecular mechanism of metallotropic rearrangements of chiral chromium tricarbonyl complexes of substituted naphthalenes and other polyaromatic compounds investigated by chiral HPLC of its racemic mixtures, 42

Metal–metal charge transfer
Cyanide-bridged tetranuclear complexes with T-shaped $Pt(CN–M)_3$ arrangements, 38

Methane C–H bond activation
Activation of CH_4 and H_2 by zirconium(IV) and titanium(IV) cationic complexes. Theoretical DFT study, 182

Mixed-metal cluster
Synthesis and molecular structures of $Co_2(CO)_{6-n}(PPh_3)_n[\mu$-$C_2(CH_2R)_2]$ (R = CH_2OH or CH_2SCMe_3) derivatives containing chelated $[CpFe(CO)_2]_2Sn$ or $W(CO)_4$ fragments, 196

Molecular dynamics
X-ray structure and fluxional behaviour of *N,N'*-di-*p*-fluorophenyltriazenido complex of nickel(II), 164

Molecular orbital
Molecular structure and conformational composition of decamethyl-*n*-tetrasilane, Si_4Me_{10}, by gas electron diffraction and density functional theory calculations, 87

Multinuclear NMR
Syntheses and reactions of some new C-pentafluorophenyl and tetrafluorophenylene carborane systems, 157

Multiple bonding
Analogies between Group 13 metal clusters in organometallic and intermetallic structures, 54

Nickel
Komplexkatalyse LVI: Zur Kation-Anion-Wechselwirkung in den C_{12}-Allylnickel(II)-Komplexen $[Ni(\eta^3,\eta^2,\eta^2$-$C_{12}H_{19})]X$ als Steuergröße für die Katalyse der stereospezifischen Butadienpolymerisation. Synthese des Tetrakis(pentafluorphenyl)borats ($X = B(C_6F_5)_4$) und Charakterisierung des Tetrafluoroborats sowie des Trifluor-methansulfonats ($X = BF_4$, CF_3SO_3) durch Röntgenkristallstrukturanalyse und Leitfähigkeitsmessungen, 92
Reactions of nickelocene with sodium in the presence of terminal alkenes, 133

Nickel(0)
1-Azadienes as bridging ligands in nickel(0) complexes of the type $[(1\text{-aza-}1.3\text{-diene})Ni(L)]_2$ (L = 1-aza-1.3-diene, alkyne, triphenylphosphine), 116

Nickel complexes
Catalysis of hydrosilylation: Part XXXIV. High catalytic efficiency of the nickel equivalent of Karstedt catalyst $[\{Ni(\eta$-$CH_2{=}CHSiMe_2)_2O\}_2\{\mu$-$(\eta$-$CH_2{=}CHSiMe_2)_2O\}]$, 175
X-ray structure and fluxional behaviour of *N,N'*-di-*p*-fluorophenyltriazenido complex of nickel(II), 164

NMR
Bidentate ferrocenylphosphines and their palladium(II)dichloride complexes — X-ray structural and NMR spectroscopic investigations and first results of their characteristics in the Pd-catalysed cooligomerisation of 1,3-butadiene with CO_2, 139

NMR chemical shifts
Benzhydroximic acids — NMR study of trimethylsilyl derivatives, 200

Nucleophilic aromatic substitution
Halophilic reactions of pentafluorohalobenzenes with transition-metal carbonyl anions, 77

ortho Carborane
Syntheses and reactions of some new C-pentafluorophenyl and tetrafluorophenylene carborane systems, 157

ortho-Metallation
New insight into role of *ortho*-metallation in rhodium triphenylphosphite complexes. Hydrogen mobility in hydrogenation and isomerization of unsaturated substrates, 69

Oxo/imido imido/imido exchange
Oxo and imido/imido exchange and C–H activation reactions based on pentamethylcylopentadienyl imido tantalum complexes, 61

para Carborane
Syntheses and reactions of some new C-pentafluorophenyl and tetrafluorophenylene carborane systems, 157

Phenylthiolate
Synthesis and structural characterization of polymeric dimethylaluminum phenylthiolate, 105

Phosphines
Bidentate ferrocenylphosphines and their palladium(II)dichloride complexes — X-ray structural and NMR spectroscopic investigations and first results of their characteristics in the Pd-catalysed cooligomerisation of 1,3-butadiene with CO_2, 139

Photolysis
(η^5-Cyclopentadienyl)$Fe(CO)_2$ complexes of barbiturate anions, 17

Platinum
Synthesis, characterization and decomposition behavior of novel acyl(hydrido)platinum(IV) complexes, 10
Polyfluorinated aryl halides
Halophilic reactions of pentafluorohalobenzenes with transition-metal carbonyl anions, 77
Polymer
Synthesis and structural characterization of polymeric dimethylaluminum phenylthiolate, 105
Polymerization
Komplexkatalyse LVI: Zur Kation-Anion-Wechselwirkung in den C_{12}-Allylnickel(II)-Komplexen [Ni(η^3,η^2,η^2-$C_{12}H_{19}$)]X als Steuergröße für die Katalyse der stereospezifischen Butadienpolymerisation. Synthese des Tetrakis(pentafluorphenyl)borats (X = $B(C_6F_5)_4$) und Charakterisierung des Tetrafluoroborats sowie des Trifluor-methansulfonats (X = BF_4, CF_3SO_3) durch Röntgenkristallstrukturanalyse und Leitfähigkeitsmessungen, 92
Propargyl/allenyl complexes
Biscyclopentadienylzirconium(IV) η^3-propargyl/allenyl complexes, 125
Pyrazolato
Syntheses of some bulky alkylalanes and alkyltrihydroaluminates: crystal structures of [Li(THF)$_2$AlH$_3$C(SiMe$_3$)$_2$(SiMe$_2$-NMe$_2$)]$_2$, Li(THF)$_2$Al$_2$H$_5${C(SiMe$_3$)$_3$}$_2$, (Me$_3$Si)$_3$CAlH$_2$·THF and the pyrazolato derivative [LiAlH(C$_3$H$_3$N$_2$)$_2$-C(SiMe$_3$)$_3$]$_2$ (THF = tetrahydrofuran), 3
Pyrazole
Catalyzed reaction of triethylborane with pyrazole, 190

Reaction mechanisms
Halophilic reactions of pentafluorohalobenzenes with transition-metal carbonyl anions, 77
Reducing agents
Reactions of the Si–H bonds in tetrakis(dimethylsilyl)methane and silane, 111
Rhodium complexes
New insight into role of *ortho*-metallation in rhodium triphenylphosphite complexes. Hydrogen mobility in hydrogenation and isomerization of unsaturated substrates, 69

Silanes
Catalysis of hydrosilylation: Part XXXIV. High catalytic efficiency of the nickel equivalent of Karstedt catalyst [{Ni(η-CH$_2$=CHSiMe$_2$)$_2$O}$_2${μ-(η-CH$_2$=CHSiMe$_2$)$_2$O}], 175
Molecular structure and conformational composition of decamethyl-*n*-tetrasilane, Si_4Me_{10}, by gas electron diffraction and density functional theory calculations, 87
Silicon
Catalysis of hydrosilylation: Part XXXIV. High catalytic efficiency of the nickel equivalent of Karstedt catalyst [{Ni(η-CH$_2$=CHSiMe$_2$)$_2$O}$_2${μ-(η-CH$_2$=CHSiMe$_2$)$_2$O}], 175
Sodium
Reactions of nickelocene with sodium in the presence of terminal alkenes, 133
Sterically crowded
Sterically crowded aryloxides of aluminum: intramolecular coordination of bidentate ligands, 29
Substituted benzhydroximic acids
Benzhydroximic acids — NMR study of trimethylsilyl derivatives, 200

Tetranuclear complexes
Cyanide-bridged tetranuclear complexes with T-shaped Pt(CN–M)$_3$ arrangements, 38
Tin
Synthesis and molecular structures of $Co_2(CO)_{6-n}(PPh_3)_n$[μ-$C_2(CH_2R)_2$] (R = CH_2OH or CH_2SCMe_3) derivatives containing chelated [CpFe(CO)$_2$]$_2$Sn or W(CO)$_4$ fragments, 196
Titanium
Reactions of methyl-substituted titanocene–bis(trimethylsilyl)-acetylene complexes with acetone azine: crystal structures of (η^5:η^1-C$_5$HMe$_3$CH$_2$CMe$_2$NH)$_2$Ti and (C$_5$Me$_5$)$_2$Ti-(N=CMe$_2$), 146
Titanocene–amide complexes
Reactions of methyl-substituted titanocene–bis(trimethylsilyl)-acetylene complexes with acetone azine: crystal structures of (η^5:η^1-C$_5$HMe$_3$CH$_2$CMe$_2$NH)$_2$Ti and (C$_5$Me$_5$)$_2$Ti-(N=CMe$_2$), 146
Titanocene–bis(trimethylsilyl)acetylene complexes
Reactions of methyl-substituted titanocene–bis(trimethylsilyl)-acetylene complexes with acetone azine: crystal structures of (η^5:η^1-C$_5$HMe$_3$CH$_2$CMe$_2$NH)$_2$Ti and (C$_5$Me$_5$)$_2$Ti-(N=CMe$_2$), 146
Triarylphosphite
New insight into role of *ortho*-metallation in rhodium triphenylphosphite complexes. Hydrogen mobility in hydrogenation and isomerization of unsaturated substrates, 69
Triazenido complexes
X-ray structure and fluxional behaviour of *N*,*N*′-di-*p*-fluorophenyltriazenido complex of nickel(II), 164
Triethylborane
Catalyzed reaction of triethylborane with pyrazole, 190
Trimethylsilyl derivatives
Benzhydroximic acids — NMR study of trimethylsilyl derivatives, 200
Tungsten
Synthesis and molecular structures of $Co_2(CO)_{6-n}(PPh_3)_n$[μ-$C_2(CH_2R)_2$] (R = CH_2OH or CH_2SCMe_3) derivatives containing chelated [CpFe(CO)$_2$]$_2$Sn or W(CO)$_4$ fragments, 196

X-ray analysis
Synthesis and molecular structures of $Co_2(CO)_{6-n}(PPh_3)_n$[μ-$C_2(CH_2R)_2$] (R = CH_2OH or CH_2SCMe_3) derivatives containing chelated [CpFe(CO)$_2$]$_2$Sn or W(CO)$_4$ fragments, 196
X-ray diffraction
Synthesis, characterization and decomposition behavior of novel acyl(hydrido)platinum(IV) complexes, 10
X-ray structures
1-Azadienes as bridging ligands in nickel(0) complexes of the type [(1-aza-1.3-diene)Ni(L)]$_2$ (L = 1-aza-1.3-diene, alkyne, triphenylphosphine), 116
Bidentate ferrocenylphosphines and their palladium(II)dichloride complexes — X-ray structural and NMR spectroscopic investigations and first results of their characteristics in the Pd-catalysed cooligomerisation of 1,3-butadiene with CO_2, 139
X-ray structure and fluxional behaviour of *N*,*N*′-di-*p*-fluorophenyltriazenido complex of nickel(II), 164

Zirconium
Biscyclopentadienylzirconium(IV) η^3-propargyl/allenyl complexes, 125